

# **Intensifier Series Camera**

## **HT-INTT5**



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[www.specotech.com](http://www.specotech.com)



Please read this manual thoroughly before operation and keep it handy for further reference.



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**INFORMATION** - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**WARNING** - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

**CAUTION** : To prevent electric shock and risk of fire hazards:

- ◆ Do NOT use power sources other than that specified.
- ◆ Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.



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## Features

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### ♣ SLC ( Speco Light Compensation )

When the image is in front of strong background lighting, your camera allows you to get the best image.

### ♣ INTENSIFIER

1/3 inch density CCD and digital processor permit high quality pictures to be captured in very low light conditions.

### ♣ High Resolution

Horizontal resolution of 530TV lines is achieved by using a SONY CCD having Double Speed 410,000 pixels.

### ♣ Motion Detection

Built into the OSD. No external devices required.

### ♣ OSD

Gives you full control of the camera's advanced functions.

### ♣ REDUCE NOISE

A DSP chip removes image noise efficiently and shows a clean image in low light conditions.

### ♣ ELECTRONIC DAY/NIGHT

You can choose between having the camera always remain in color or having it change into the B/W mode in low light conditions.

### ♣ MANUAL/DC LENS

You can use Auto Iris, Manual Iris and Fixed Iris lenses



## Precautions

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- \* Do not install the camera in extreme temperature conditions.
- Only use the camera under conditions where temperatures are between  $-10^{\circ}\text{C}$  and  $+50^{\circ}\text{C}$ . Be especially careful to provide ventilation when operating under high temperatures.

- \* Do not install or use the camera in an environment where the humidity is high.
- It can cause the image quality to be poor.

- \* Do not install the camera under unstable lighting conditions.
- Severe lighting change or flicker can cause the camera to work improperly.

- \* Do not drop the camera or subject them to physical shocks.
- It can cause malfunctions to occur.

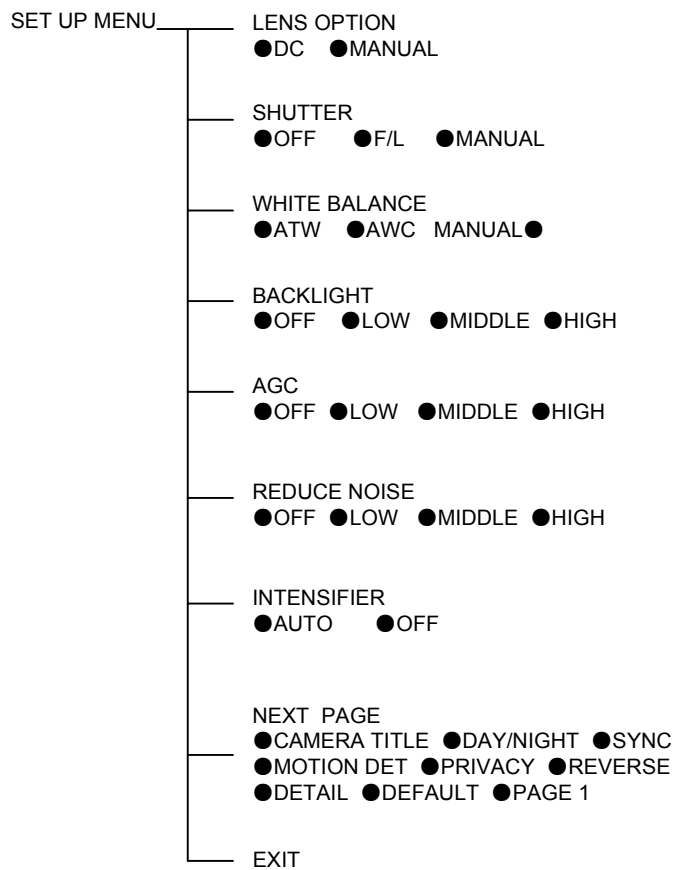
- \* Do not expose the camera to radioactivity.

- \* Never allow the camera to face the Sun.
- It can damage the CCD.



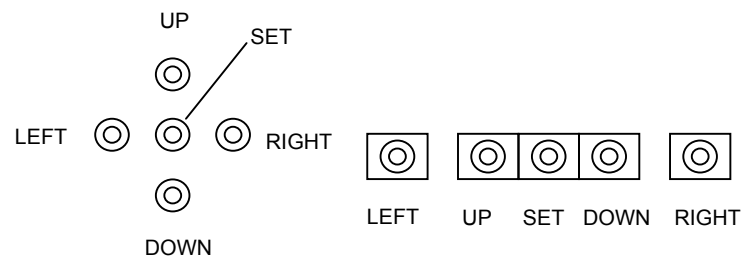
## Operating your camera

### ◆ Functions



### ◆ OSD Menu Setting

1. When you control by Buttons on the Product, refer to the following  
(OPTION)



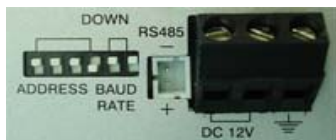
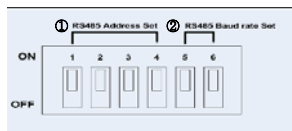


## Operating your camera ( Option )

1. When controlled by RS-485, Pelco-D protocol (Option), refer to the following.

### A. DIP Switch Setting on the Camera

(Factory default : Camera Address = 01, Baud Rate = 2400bps)



[RS485 Address Set]

Address	SW 1	SW 2	SW 3	SW 4
01	ON	ON	ON	OFF
02	ON	ON	OFF	ON
03	ON	ON	OFF	OFF
04	ON	OFF	ON	ON
05	ON	OFF	ON	OFF
06	ON	OFF	OFF	ON
07	ON	OFF	OFF	OFF
08	OFF	ON	ON	ON
09	OFF	ON	ON	OFF
10	OFF	ON	OFF	ON
11	OFF	ON	OFF	OFF
12	OFF	OFF	ON	ON
13	OFF	OFF	ON	OFF
14	OFF	OFF	OFF	ON
15	OFF	OFF	OFF	OFF

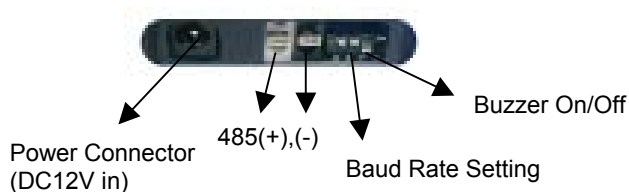
[Baud rate Set]

Baudrate	SW 5	SW 6
2400	ON	ON
4800	ON	OFF
9600	OFF	ON
19200	OFF	OFF

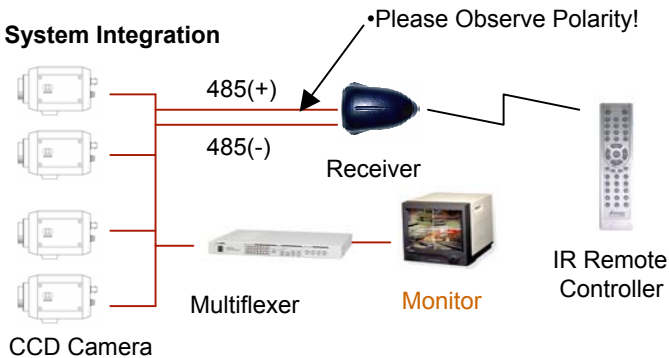
•Up to 15 Cameras can be controlled by 1 IR Remote Controller & 1 Receiver. You must set up each camera's address by DIP Switches for proper addressing.

### B. Receiver Setting to use with IR Remote Controller

(Factory default : Baud Rate = 2400bps, Chart is same as above)

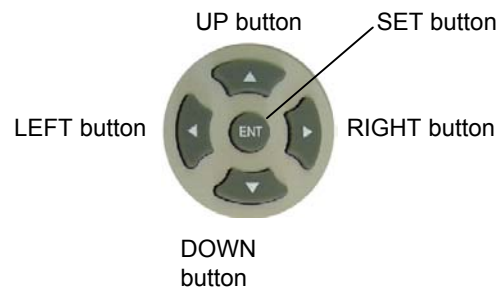


### C. System Integration



### D. IR Remote Controller ( Optional )

- Can call and control each camera on the monitor by the following.



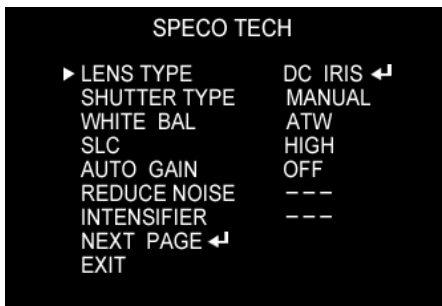
When you call Camera Address 01

- >Push 0 Button
- >Push 1 Button
- >Push CAM Button



## Operating your camera - SET UP

1. Press the SET button to access the SETUP mode.  
● SETUP menu is displayed on the monitor screen.



2. Select the desired feature using the UP or DOWN button.  
● Each time you press the UP or DOWN button, the arrow indicator moves up or down.  
● Move the arrow indicator to the desired feature item.
3. Change the status of the selected feature using the LEFT or RIGHT button.
4. When completed, move the arrow indicator to 'EXIT' and press the SET button.

### Notes

- You can access submenu by using SET button.
- For the mode with '---', you may not access submenu.

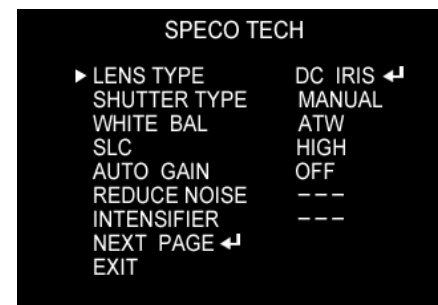
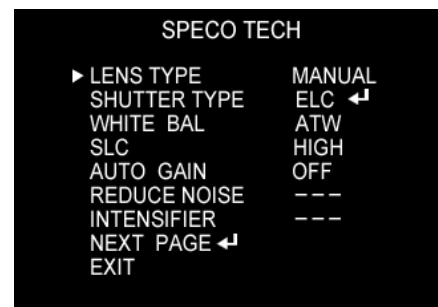


## Operating your camera - LENS

### 1) Setting up the LENS

Select the lens pressing the RIGHT button.

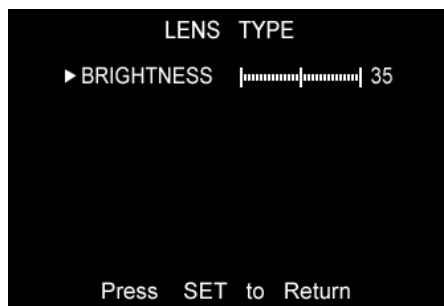
- ① On the SETUP menu screen, move the arrow indicator to the lens using the UP or DOWN button.
- ② Select the desired feature using the LEFT or RIGHT button.







## Operating your camera – SHUTTER SPEED CONTROL①



► When DC LENS selected, press SET button to control the BRIGHTNESS.

### Notes

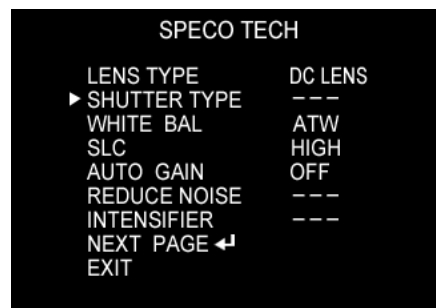
- AUOT IRIS LENS(DC TYPE) is recommended

## 2) Shutter status and speed control

You can control brightness of the screen by the shutter speed.

- ① Press the SET button to display the setup menu and move the arrow indicator to 'SHUTTER' using the UP or DOWN button.
- ② Set 'SHUTTER' to the desired mode using the LEFT or RIGHT button.

### ► OFF : Deactivation



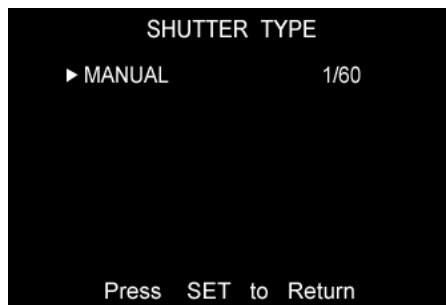
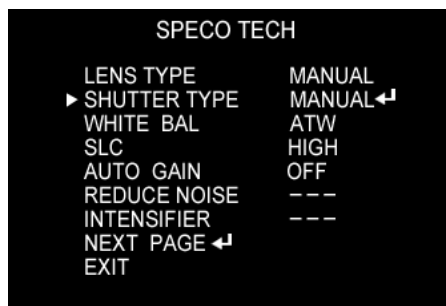
### ► FLK (1/100) : Flicker mode



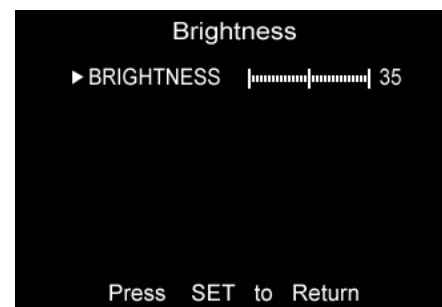


## Operating your camera —SHUTTER SPEED CONTROL ②

- MANUAL : When setting shutter speed manually.  
You can select speed from '1/60' to '1/200,000'sec



- ELC : You can control the BRIGHTNESS.



- ③ When completed, press 'SET'

### Notes

- Avoid pointing the camera directly at a fluorescent lamp.
- When the SHUTTER menu is set to FLK mode, the INTENSIFIER will not work.



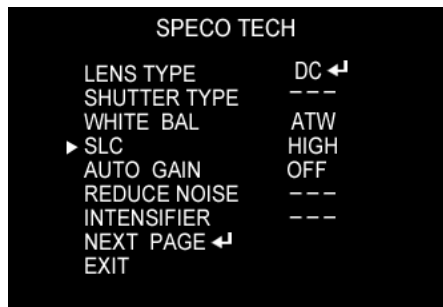
## Operating your camera - BACKLIGHT

### 3) SLC (Speco Light Compensation) - BACKLIGHT

A built-in SR chip provides intelligent light level control to overcome severe Backlight conditions.

- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'SLC' using the UP or DOWN button.
- ② SET 'SLC' to the desired mode using the LEFT or RIGHT buttons.

► OFF      ► LOW      ► MIDDLE      ► HIGH



BLC



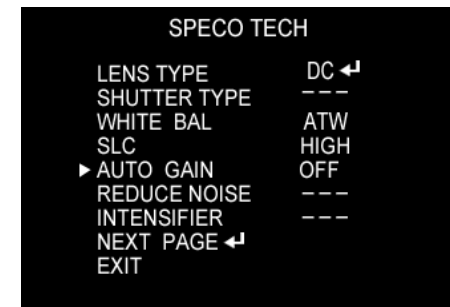
OFF

### 4) AUTO GAIN (AGC)

AGC allows a brighter picture in low light conditions. Higher GAIN level, Will yield a brighter screen, but you might notice an increase in noise.

- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'AGC' using the UP or DOWN button.
- ② SET 'AUTO GAIN' to the desired mode using the LEFT or RIGHT button.

► OFF      ► LOW      ► MIDDLE      ► HIGH

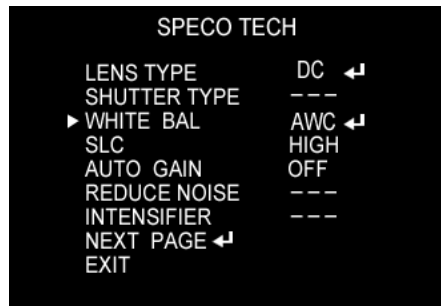




## Operating your camera - WHITE BALANCE

### 5) WHITE BALANCE

- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'WHITE BALANCE' using the UP or DOWN button.
- ② Set 'WHITE BAL.' to the desired mode using LEFT or RIGHT button.



► **MANUAL** : To fine adjust, select the Manual mode. You can increase or decrease the red or blue factor while monitoring the difference on the screen. Set to 'MANUAL' mode and press the SET button. Increase or decrease the value for RED(R-Gain) and BLUE(B-Gain), watching the color of the picture, and press the SET button when you obtain the best color.

#### Notes

- Proper White Balance may not be obtained under the following conditions, in these cases select the AWC mode.
  - When the scene contains mostly high color temperature object, such as a blue sky or sunset.
  - When the scene is dim.
  - If your camera faces fluorescent lamp directly or is installed in an area with constantly changing illumination.

#### ► ATW (Auto Tracking White Balance)

: When color temperature is 2400~12000K, select this mode.  
(ex. A fluorescent lamp, outdoors)

#### ► AWC (Auto White Balance Control)

: The white balance is automatically adjusted in a specific environment.  
In order to obtain the best result, press the set button while the camera focuses on white paper. If the environment including the light source is changed, you have to adjust the white balance again.

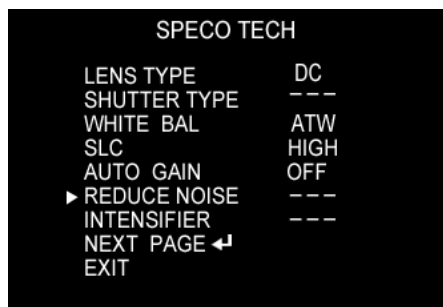


## Operating your camera - DNR

### 6) REDUCE NOISE (Dynamic Noise Reduction)

DNR reduces the video noise on the screen.

- ① Press the SET button to display the SETUP menu and move the arrow to 'REDUCE NOISE' using the UP or DOWN button.
- ② SET 'REDUCE NOISE' to the desired mode using the LEFT or RIGHT button.



- ▶ OFF : Deactivation
- ▶ LOW : Low reduction of the noise
- ▶ MIDDLE : Middle reduction of the noise
- ▶ HIGH : High reduction of the noise

#### Notes

- If you change the 'GAIN' menu from AGC-L to AGC-H, sensitivity is increased as well as noise on the screen.
- When the 'GAIN' menu is OFF, REDUCE NOISE will not work.



## Operating your camera - INTENSIFIER

### 7) INTENSIFIER

Allows you to get clear images under night or low light conditions.

- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'INTENSIFIER' using the UP or DOWN button.
- ② SET 'INTENSIFIER' to the desired mode using the LEFT or RIGHT button.



- ▶ AUTO : When your camera is under night or low lighting conditions select this mode. This mode allows the camera to switch into B/W in low light conditions.

- ▶ OFF : Deactivation

#### Notes

- If you press "auto" button in the Intensifier mode, you can Control the amount of intensification from 2X ~ X128.
- Increasing the amount of Intensification results in brighter pictures Under low light conditions, and may increase image lag.
- Increasing the amount of intensification may cause image noise which is to be expected as a normal condition..



- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'NEXT PAGE' using the UP or DOWN button.
- ② SET 'NEXT PAGE' to the desired mode using the LEFT or RIGHT button.



- NEXT PAGE  
 ▶ CAMERA TITLE ON ↵  
 DAY / NIGHT ---  
 SYNC INT  
 MOTION OFF  
 PRIVACY OFF  
 REVERSE OFF  
 DETAIL ON ↵  
 DEFAULT  
 PAGE 1 ↵

- If the CAMERA TITLE feature is set to 'OFF', the name will not be displayed on the monitor.

- 
- CAMERA TITLE
- ABCDEF GHIJKLM
- NOPQRSTU VWXYZ
- a b c d e f g h i j k l m
- n o p q r s t u v w x y z
- 0 1 2 3 4 5 6 7 8 9
- ← → CLR POS END
- -----
- Press SET to Return

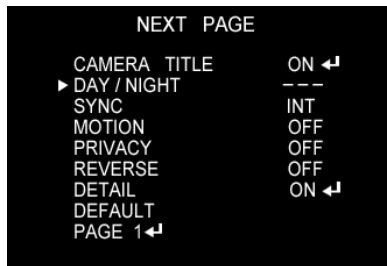
- If you make a mistake while entering the name  
Move the cursor to 'CLR', press 'SET' button.  
After erasing the character from right to left, correct the character again.



## Operating your camera – COLOR/SYNC

(2) COLOR : You can choose color and B/W mode electronically.

- ① Press the SET button to display the setup menu and move the arrow indicator to 'COLOR' using the UP and DOWN button.
- ② SET 'COLOR' to the desired mode using the LEFT or RIGHT button.



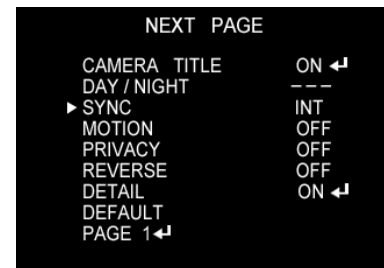
- ▶ COLOR : The camera will always display a color picture
- ▶ AUTO : The camera will switch into the B/W mode under low light conditions.

### Notes

- OSD Key may not work for 3 seconds when the COLOR/BW mode is changed.

(3) SYNC : Two SYNCHRONIZATION modes are available INTERNAL and EXTERNAL LINE-LOCK.

- ① Press the SET button to display the setup menu and move the arrow indicator to 'SYNC' using the UP and DOWN button.
- ② SET to the desired mode using the LEFT or RIGHT button.



- ▶ INT : Internal synchronization
- ▶ L/L : If you choose 'L/L', you can adjust the desired phase.
  - Press the SET button.
  - You can adjust the desired phase from 0 to 270.

### Notes

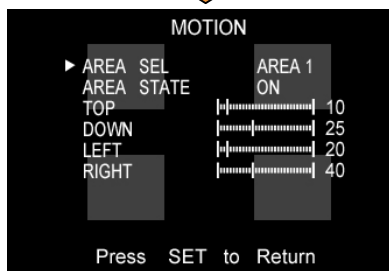
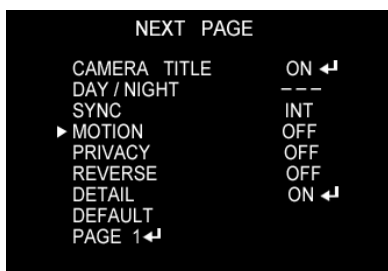
- When it used in AC power, L/L mode can be used.
- In 12V DC, the SYNC menu defaults to 'Internal'.



## Operating your camera – MOTION DETECTION

(4) Whenever your camera detects motion, THE WORDS “motion detected” will appear on the screen.

- ① Press the SET button to display the setup menu and move the arrow indicator to 'MOTION' using the UP and DOWN button.
- ② SET 'MOTION' to the desired mode using the LEFT or RIGHT button.



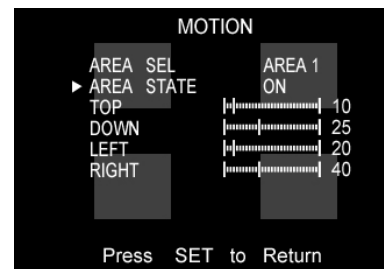
▶ OFF : Deactivation

▶ ON : MOTION. activated

-Press SET button.

-Move the arrow indicator to 'AREA SET' using UP and DOWN button, and then press the SET button.

- Set the areas you want to observe.



Max.



Min.

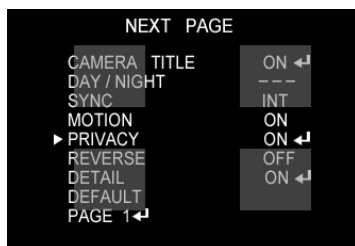
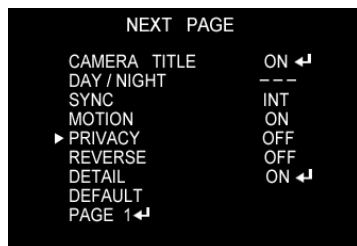




## Operating your camera - PRIVACY

(5) PRIVACY : To mask area which you want to be private.

- ① Press the SET button to display the setup menu and move the arrow to 'PRIVACY' using the UP and DOWN button.
- ② SET 'PRIVACY' to the desired mode using the LEFT or RIGHT button.



▶ OFF : Deactivation

▶ ON : PRIVACY mode activated

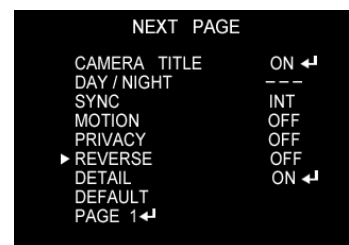
- Press the SET button.
- Move the arrow to the area you want to mask.
- Set 'ON' using LEFT or RIGHT button.
- Press the SET button and then set the area's bounds as for Motion detection.



## Operating your camera - MIRROR

(6) REVERSE

- ① Press the SET button to display the setup menu and move the arrow indicator to 'REVERSE' using the UP and DOWN button.
- ② SET 'REVERSE' to the desired mode using the LEFT or RIGHT button.



▶ OFF : Deactivation

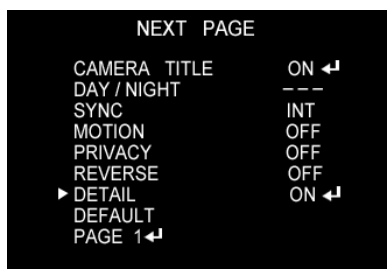
▶ ON : Reverse the image RIGHT or LEFT.



## Operating your camera - SHARPNESS

### (7) DETAIL

- ① Press the SET button to display the setup menu and move the arrow indicator to 'DETAIL' using the UP and DOWN button.
- ② SET 'DETAIL' to the desired mode using the LEFT or RIGHT button.



► OFF : Deactivation

► ON : DETAIL control mode (level 0~31)

When the level is up, the sharpness will increase.

Control this level to get your best picture quality.

If the level is too high, you can get an unnatural image with video noise.



## Operating your camera - RESET/RETURN

(8) DEFAULT : Use to reset your camera to FACTORY DEFAULT SETTING.

(9) PAGE 1 : Save the setting of NEXT PAGE function, and then move to SET UP menu.



## Troubleshooting

If you have trouble operating your camera, refer to the following.

Problem	Solution
<b>Nothing appears on the screen.</b>	<ul style="list-style-type: none"><li>● Check that the power cord and line are properly connected.</li><li>● Check that you have properly connected the VIDEO cable the camera VIDEO output jack.</li></ul>
<b>The image on the screen is dim.</b>	<ul style="list-style-type: none"><li>● Is lens stained with dirt? Clean your lens with soft, clean cloth.</li><li>● Is the monitor properly adjusted?.</li><li>● If the camera is exposed to strong light change the camera position.</li><li>● Adjust the lens' focus properly.</li></ul>
<b>The image on the screen is dark.</b>	<ul style="list-style-type: none"><li>● Adjust the contrast feature of the monitor.</li><li>● If you have an intermediate device, set the 75Ω/Hi-z properly.</li></ul>
<b>The camera is not working properly, and the surface of the camera is not.</b>	<ul style="list-style-type: none"><li>● Check that you have properly connected the camera to an appropriate power source.</li></ul>
<b>MOTION DETECTION function is not active.</b>	<ul style="list-style-type: none"><li>● Have you set 'MOTION DET.' menu to off?</li><li>● Have you set 'MD LEVEL' to low?</li><li>● Have you set 'MD ARAEA' properly</li></ul>

Problem	Solution
<b>The color of the picture is not matched.</b>	<ul style="list-style-type: none"><li>● Check that you have properly set the 'WHITE BAL' menu</li></ul>
<b>The image on the screen flickers.</b>	<ul style="list-style-type: none"><li>● Is the camera facing to direct sunlight or fluorescent lighting? Change the camera option.</li></ul>
<b>L/L mode isn't able to be selected.</b>	<ul style="list-style-type: none"><li>● Have you connected your camera to DC power source? Connect it to AC power source.</li></ul>



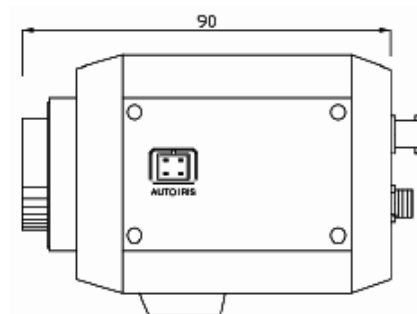
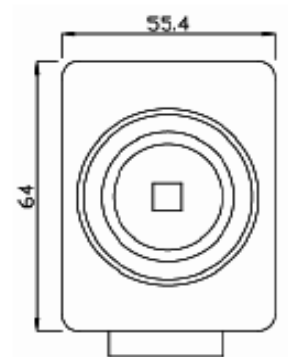
## SPECIFICATIONS

ITEM	HT-INTT5
Power Source	DC 12V & AC 24v ( Dual Voltage )
Power Consumption	280mA(DC) / 3.8W(AC)
Image Sensor	1/3", SONY SUPER HAD CCD, 410,000 pixels
Total Pixels	811(H) x 608(V), 1/3" CCD
Effective Pixels	768(H) x 494(V), 1/3" CCD
LENS Type	C & CS MOUNT ( OPTIONAL )
Maximum Aperture Ratio	N/A
Scanning System	2 : 1 Interlaced 525 Lines / 60 Fields / 30 Frames
Synchronization	Internal / Line Lock selectable
Video Output	1.0V [p-p] NTSC Composite, 75Ω / BNC Connector
Resolution	530 TV Line
Gain Control	AGC-L, AGC-H, OFF selectable
Electric Shutter Speed	1/60 ~ 1/200,000 sec
INTENSIFIER	Built-in ( selectable limit ~ X128)
WHITE BALANCE	ATW / AWC / MANUAL
Min. Illumination	0.003Lux (intensifier) 0.3Lux(sh)
S/N ( Y signal)	50dB (Weight On)
REDUCE NOISE	OFF / LOW / MIDDLE / HIGH
Motion Detection	MD1 / MD2 / OFF
On Screen Display ( O.S.D )	Built - in
PRIVACY Function	ON / OFF (4 Programmable Zone)
Operational Temperature	-29℃ ~ +50℃ (-20°F ~120°F)
Operational Humidity	to 95% RH



## DIMENSIONS

\* SIDE VIEW





## WARRANTY



### LIMITED WARRANTY

THIS WARRANTY IS VALID ONLY ON PRODUCTS PURCHASED AND USED IN THE UNITED STATES OF AMERICA. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL USER.

SUBJECT TO CONDITIONS AND EXCLUSIONS FOUND BELOW, THIS PRODUCT IS WARRANTED AGAINST MANUFACTURING DEFECTS IN MATERIAL AND WORKMANSHIP FOR THE FOLLOWING PERIOD FOR PARTS AND LABOR:

ProVideo CAMERAS:	5 YEARS
ProVideo MONITORS:	1 YEAR
BALANCE OF ProVideo LINE:	1 YEAR*
* IR LEDs, Time lapse VCR Drum Assemblies & Heads:	90-DAYS

WE WILL REPAIR OR REPLACE (AT OUR OPTION) ANY PARTS FOUND TO BE DEFECTIVE FOR THE WARRANTY PERIOD SPECIFIED. WE WILL PROVIDE A REPLACEMENT FOR ANY DEFECTIVE PART.

#### CONDITIONS

1. THIS WARRANTY WILL BE HONORED ONLY UPON PRESENTATION OF THE ORIGINAL DATED BILL OF SALE OR SALES SLIP.
2. TRANSPORTATION OF THE PRODUCT TO OUR SERVICE STATION IS THE RESPONSIBILITY OF THE USER. REPAIRED OR REPLACED PRODUCT WILL BE RETURNED PREPAID DURING THE WARRANTY PERIOD.

#### EXCLUSIONS

1. THIS WARRANTY SHALL NOT COVER ADJUSTMENT OF CUSTOMER OPERATED CONTROLS AS EXPLAINED IN THE APPROPRIATE MODEL INSTRUCTION MANUAL OR PRODUCTS WHICH HAVE BEEN ALTERED, ABUSED, OR HAVE MISSING OR ALTERED SERIAL NUMBERS.
2. THIS WARRANTY SHALL NOT APPLY TO UNCRATING, SETUP, INSTALLATION, OR THE REMOVAL AND REINSTALLATION OF PRODUCTS AFTER REPAIR.
3. THIS WARRANTY SHALL NOT APPLY TO REPAIRS OR REPLACEMENTS NECESSITATED BY ANY CAUSE BEYOND THE RESULT OF MANUFACTURE INCLUDING, BUT NOT LIMITED TO, ANY MALFUNCTION, DEFECTS OR FAILURE CAUSED BY OR RESULTING FROM UNAUTHORIZED SERVICE OR PARTS, IMPROPER MAINTENANCE, MODIFICATION OR REPAIR BY THE USER, ABUSE, MISUSE, NEGLIGENCE, ACCIDENT, FIRE, FLOOD OR OTHER ACTS OF GOD, INCORRECT LINE VOLTAGE, DAMAGE OR IMAGE BURNS TO TELEVISION PICTURE TUBES CAUSED BY OR ATTRIBUTABLE TO THE USE OF ANY ACCESSORY, ELECTRONICS GAME OR DEVICE, OR DAMAGE CAUSED TO IMAGE PICKUP DEVICES BY EXCESSIVE LIGHT.

THE FOREGOING IS IN LIEU OF ALL OTHER EXPRESSED WARRANTIES AND WE DO NOT AUTHORIZE ANY PARTY TO ASSUME FOR US ANY OTHER OBLIGATION OR LIABILITY. IN NO EVENT SHALL WE BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF THIS PRODUCT, OR FOR ANY DELAY IN THE USE OF THIS PRODUCT DUE TO CAUSES BEYOND OUR CONTROL.

SOME STATES DO NOT ALLOW LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL DAMAGES. THE ABOVE LIMITATIONS ON IMPLIED WARRANTY AND CONSEQUENTIAL DAMAGES MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

**NOTE: FOR YOUR PROTECTION IN THE EVENT OF THEFT OR LOSS OF THIS PRODUCT, PLEASE FILL IN THE INFORMATION REQUESTED BELOW AND RETAIN WITH YOUR SALES RECEIPT.**

MODEL NO.: \_\_\_\_\_ SERIAL NO.: \_\_\_\_\_  
(LOCATED ON BACK OR BOTTOM SIDE OF UNIT)

DATE OF PURCHASE: \_\_\_\_\_

WHERE PURCHASED: \_\_\_\_\_ PURCHASE PRICE: \_\_\_\_\_

Speco Technologies  
200 NEW HIGHWAY  
AMITYVILLE, NY 11701

FOR MORE INFORMATION REGARDING  
SERVICE OR RETURN, CALL US AT  
TOLL FREE: 1-800-645-3516 IN METRO NY: 631-867-8700

ALWAYS USE DISCRETION WHEN INSTALLING VIDEO AND/OR AUDIO SURVEILLANCE EQUIPMENT ESPECIALLY WHEN THERE IS AN EXPECTATION OF PRIVACY. INQUIRE REGARDING FEDERAL, STATE AND/OR LOCAL REGULATIONS APPLICABLE TO THE LAWFUL INSTALLATION OF VIDEO AND/OR AUDIO RECORDING OR SURVEILLANCE EQUIPMENT. PARTY CONSENT MAY BE REQUIRED.